CIFE/FEESD

Fisheries Extension MFSc Syllabi 2014

M.F.SC. - FISHERIES EXTENSION

Course Structure

	Course No.	Course Title	Credit Hours	Minimum Credit Requirements
Α	A1	MAJOR - CORE COURSES		12 Credits
1	FEX 501	Perspectives and Practices of Extension	2+1	
2	FEX 502	Extension Communication and Methods	2+1	
3	FEX 503	Diffusion and Adoption of Innovations	2+1	
4	FEX 504	Extension Management and Human Resource Management	2+1	
	A2	MAJOR - OPTIONAL COURSES		8 Credits
5	FEX 505	Community Organisation and Entrepreneurship Development	2+1	
6	FEX 506	Gender, Livelihood and Development	1+1	
7	FEX 507	Development Journalism	1+2	
8	FEX 508	Planning and Management of Development Programs	1+1	
В	MINOR CO	PURSES (Courses outside major discipline / from other relevant disciplines)		9 Credits
С	SUPPORTING COURSES		5 Credits	
	Total Course Work Credits			34 Credits
D	MASTERS' SEMINAR			1 Credit
	FEX 591	Masters' Seminar I	0+1	
E	FIELD TRAII	NING		2 credits
	FEX 551	Field Training / Internship	0+2	
F	MASTERS' RESEARCH			20 Credits
	FEX 599	Masters' Research (Semester III)	0+10	
	FEX 599	Masters' Research (Semester IV)	0+10	
			57 Credits	

MFSc - FISHERIES EXTENSION <u>Course Contents</u>

FEX 501 PERSPECTIVES AND PRACTICES OF EXTENSION

2+1

Objective:

- 1. To gain analytical insights about different concepts, principles, praxis, recent changes and emerging challenges in fisheries extension
- 2. To acquire skills required to practice various fisheries extension approaches.

Theory

Unit I

Understanding extension education, extension research, and extension service; overview of historical and emerging extension in India and world; formal, informal, adult, continuing and distance education systems; overview of fisheries research and extension systems in India (NARS & NAES); scope and importance of fisheries, agriculture and veterinary extension in rural development.

Unit II

Principles and approaches of fisheries and aquaculture extension: overview and their critique; extension gap; learning theories, pedagogy and andragogy; epistemology of indigenous *vis-à-vis*scientific knowledge; attitude - meaning, characteristics and factors affecting attitude change.

Unit III

Extension/ToT programs of ICAR/SAUs: FLD, OFT, KVK, TAR-IVLP, ITD-SREP, ATIC, NAIP, FSR&E; CDP and IRDP; extension system of State Fisheries and Agri. Departments; extension approach of BOBP-IGO, FFDA, ATMA and NGOs; Market led extension approaches; Globalization, IPR and Extension; Extension policy and National Mission on Agricultural Extension and Technology.

Practical

Case studies on extension approaches practiced by select state DoFs, FFDAs / BFDAs, select NGOs; Marianad model, Versova model, BENFISH model; AMUL model; International cooperation in agriculture & fisheries - SAIC, Commonwealth, FAO, USAID, DFID and CGIAR system; Extension systems of select countries (USA, UK, Japan, Philippines, Israel); Exercise on co-learning approaches; Field exposure on extension activities by DoF and other agencies; Production to consumption and end-to-end innovative approaches.

- 1. C. Ramchandran, 2004, Teaching not To F(in)ish: A constructivist Perspective on Reinventing a Responsible Marine Fisheries Extension System, CMFRI, Kochi
- 2. Dilip Kumar, 1996, Aquaculture Extension Services Review: India, FAO Fisheries Circular No. 906, FAO, Rome
- 3. Ray, G. L.(2006). Extension, Communication and Management. Sixth edition, Kalyani Publication (PD)
- 4. Van Den Ban and Hawkins, 2002. Agricultural Extension (2ndEdn), CBS Publishers, Delhi.
- 5. Malhotra, S.P. and Sinha, V.R.P. 2007. Indian Fisheries and Aquaculture in a Globalizing Economy Part II, Narendra Publishing House (RS)
- 6. Chandrasekhar (Ed.), *Privatization of Agricultural Extension in India*. MANAGE, Hyderabad.

- 1. To learn about different communication strategies used in group and mass communication
- 2. To learn about application of extension methods and communication aids

Theory Unit I

Communication: concept, process, scope, channels and models; message: meaning, dimensions, characteristics, treatment and effectiveness; intrapersonal and interpersonal communication; group and mass communication; credibility, fidelity, empathy and feedback in communication

Unit II

Unit III

Communication: problems, barriers, distortion, noise, overcoming barriers, homophily and heterophily; traditional media; organizational communication Extension teaching methods: selection, planning, use; demonstration, exhibition, farmers fairs, field days, tours; basics of agricultural journalism

Practical

Visual aids: classification, selection; communication skills: public speaking; Photography: principles and use in extension; designing extensionmaterials: publications, bulletins, folders, leaflets, booklets, newsletters, popular and scientific articles; script writing

- Van Den Ban, A.W., Communication for Rural Innovation: Rethinking Agricultural Extension, Blackwell Pub.
- Harry A. Carey, Food & Agriculture Org., Communication in Extension: A Teaching and Learning Guide 1999
- Francis Xavier Moakley, Handbook of audio-visual aids, Publisher: Harcourt Brace Jovanovich (1973)
- R K Samanta (1990) Development Communication for Agriculture. D.K. publishers. New Delhi
- 5. K B Mathur (1994) Communication for Development and Social change. Allied Publishers Limited, New Delhi
- Lesiskar, R.V. and Pettit, J.D., Business Communication, Tata Mc Graw-Hill
- Locker, K.O. &Kaczmark, Business Communication-Building Critical Skills, Ta McGraw Hill

- 1. The participants will be able to identify the elements of diffusion process in fisheries sector&state the role of change agents and diffusion systems
- 2. The participants will be able to explain the role of ICT in diffusion process.

Theory Unit I

Elements of diffusion; diffusion research; innovations in fisheries — innovation development process; Identification, characterization, documentation and validation of ITKs; factors affecting innovation and attributes of innovation; Concept and elements of diffusion and adoption for social change; Diffusion process, adoption process, models of diffusion and adoption, adopter categories and their characteristics; Factors influencing adoption and attributes of innovations; Concept, stages, and criticismof Innovation-decision process;

Unit II

Concept and theories of rural leadership; opinion leader – meaning, characteristics, types and their measurement; Rapport building; Training / communication skills for development of local leaders and key communicators; Change agent – meaning, roles, factors of success; Centralised and decentralised diffusion systems; innovation in organisations; Consequences of innovations - model and classification; Social and technological changes;

Unit III

Concept of ICT and its role in rural development, ICT tools, print and electronic media, recent communication technologies - web based technologies, video conferencing, computer assisted instructions, information kiosks, cyber extension / e-extension, Village Resource Centres, e-Governance and NEGP; kisan call centres; community radios; basics of audio and video technology; mobile communication. Networking system of information and challenges in use of ICTs, types of network- PAN, LAN, WAN, Internet, AGRINET, AKIS/MAKS, Agripedia, ICT programmes in fisheries development; Use of expert systems.

Practical

Concept mapping;describing fisheries technologies; explaining case study of the diffusion process of select fisheries innovations; identifying success store where ICT is used in diffusing knowhowlike aquachoupal and e-sagu projects, Warana project and Gyandoot project; identifying important ITKs in fisheries.

- 1. Rogers, Everett M. (2003). *Diffusion of Innovation, Fifth Edition*. New York, NY: Free Press.ISBN 0-7432-2209-1
- 2. Davies, Stephen (1979). *The Diffusion of Process Innovations*. Cambridge University Press. Cambridge
- 3. Grenier, Louise (1998): 'Working with Indigenous Knowledge', International Development Research Centre, Canada
- 4. Warren, Michael D and others (1995): 'The Cultural Dimension of Development: Indigenous Knowledge Systems', Intermediate Technology Publications, London.
- 5. Warren, Michael D, G.W.von Liebenstein and Slikkerveer (1993). Networking for indigenous knowledge. In Indigenous Knowledge and Development Monitor. Vol. 1 (1) pp 2-4.
- 6. http://www.youtube.com/watch?v=B5Kx0hV6jhY

To familiarize the students with basic concepts of HRM, OB and Training with special reference to organizations in fisheries sector.

Theory
Unit I

Concept and principles of administration and management, classical and modern theories, schools of management thought. Functions of management – planning, organizing, staffing, directing and leading, controlling, coordinating, reporting and budgeting. Concept of HRM and methods, job satisfaction and morale, performance appraisal. Concept of organisational behaviour, organizational effectiveness, organizational climate, organizational development, coordination at different levels of extensionmanagement, methods of coordination. Management by Objective (MBO) and Total Quality Management (TQM).

Unit II

Personnel management, scope of Agri/Fish Business Management and Institutions – MANAGE, IIPM, NIRD, EEI and NAARM. Critical analysis of organizational set up of extension administration at various levels. Management Information System. Decision-making and Problem Solving Techniques, Motivational Theories & Techniques, Work motivation;

Unit III

Training and development of human resources; identifying training needs and assessment of training impact; training principles: importance, methods and factors; phases of training: pre-training and post training; developing training modules, training requirements, training methods; lecture cum demonstration method, case method, group brain storming, syndicate method, business games, simulation exercises, in-basket exercise, programmed instruction, experiential learning techniques such as sensitivity training, T-group, evaluation of training: types and techniques of training evaluation.

Practical

Team buildingprocess and strategies at organizational and village levels, group dynamics, negotiation;conflict management;time management;change management;stress management;leadership styles;motivation techniques;Training need assessment for different clientele groups; Designing training tools and manuals on fisheries; Organising and conducting fisheries training programmes; Evaluation of training - before and after, Transactional analysis and fish bowl exercises;

- 1. Decenzo, D.A. and Robbins, S.P., 2009. Fundamentals of Human Resource Management, John Wiley and Sons.
- 2. Randall S. Schuler, Susan E. Jackson, 2008. Strategic Human Resource Management, Wiley India.
- 3. Wilson, F., 2010. Organizational Behaviour and Work: A Critical Introduction,Oxford University Press, USA.
- 4. R.P. Singh, A. Jhamtani and Premlata Singh (1996), Training Management . Jain Publishers, New Delhi
- 5. Lynton R.P and Pareek U (1973) Training for Development. Sage publications
- Misra D C (1990) New Directors in Extension Training. Directorate of Extension, Ministry of Agriculture, New Delhi

- 1. The participants will be able to explain the concepts associated with community organizations and describe the participatory methods and their role in empowering fishers.
- 2. The participants will be able to describe entrepreneurship and related programmes

Theory Unit I

Sociological perspectives of society and culture; Community Organisation (CO): Meaning and Models; Understanding of basic rural institutions, social structures, culture, norms, and relevance of CO; Social conflict and CO;NGOs;Self Help Groups - concepts, organisation, mobilization, micro-finance and functioning of SHG for empowerment and sustainability; Concept of power, dimensions of power relevant in CO Process; Social Action; Local Self Governance; Rural-Urban divide.

Unit II

Participatory methods and techniques - Participatory Learning Approach (PLA) and participatory action learning method (PALM); RRA and PRA: concepts, tools and process; FGD, SWOL/T; participatory research and technology development; selection of participatory methods and their uses; Mobilization and empowerment skills: concept and strategies in mobilization, concretisation and empowerment of rural people; Social auditing.

Unit III

Entrepreneurship development - concept, significance and scope; programs and agencies promoting entrepreneurship; Types and techniques of training for developing entrepreneurial activities in various areas; Agripreneurship, Agri-clinics and agribusiness centres; Producer companies and cooperatives; Technology Parks.

Practical

Describing some fisher communities and their specialities; Exercise on gender equality; Exercise on community consciousness; Exercise on recognizing the good aspects of community members; Exercise in conflict management; Conducting RRA/PRA in select village; Conducting FGD and developing action plans; Case studies onparticipatory aquaculture extension approaches; case studies on fisheries co-management / community based fisheries management; Case analysis of selected entrepreeurs in fisheries.

- 1. R.Chambers, P. Arnold and Thrupp (1989) Farmers First: Farmer innovation and Agricultural Research. Intermediate Technology.
- 2. N. Mukherjee(1997) Participatory Rural Appraisal, Methodology and Applications, Concept Publishing Company, New Delhi.
- 3. Roger L. Martin & Sally Osberg (2007)Social Entrepreneurship: The Case for Definition, Stanford Social Innovation Review
- 4. http://www.ngobiz.org/picture/File/Social%20Enterpeuneur-The%20Case%20of%20Definition.pdf

- 1. To gain conceptual understanding on issues related to the gender, livelihood and development
- 2. To understand the trade-off between gender, livelihood and development

Theory Unit I

Basic concepts of gender;historical perspectives: Women in development (WID), Gender and development (GAD);practical needs vs. strategic gender interests;social construction of gender: culture, society, family, home, ideologies, patriarchy, social life of fishers: family, religion, caste; gender sensitivity in extension education programmes; mainstreaming gender in agricultural and fisheries extension system.

Unit II

System of national accounts (SNA activities and Non SNA activities), gender and climate change, gender in community diversity and its implication for empowerment; gender tools and methodologies: dimensions and methodologies for empowerment; gender budgeting; gender specific technologies; gender issues and development: health and nutrition, violence, governance, education and media.

Unit III

Concept of livelihood; Sustainable Livelihood Analysis framework; relevance of capture fisheries in food, nutrition, employment, income and livelihood securities of fishers; exploitation and utilization patterns; fisheries regulations and livelihoods; women in fisheries: status, role, impact, future; women oriented developmental programs (fisheries, Agricultural, Animal Husbandry and Dairy); vulnerability of fishers to changes in resource availability, natural disasters and coping mechanisms in disaster management.

Practical

Gender analysis frameworks; gender aware policy;gender sensitive indicators: HDI, GDI, GEM;case studies on marginalization of fishers, small scale processors and traders due to changing scenarios of product diversification, markets and trade; livelihood impact of dams, river linking, alternative livelihood options; conflicts within sub-sectors of fisheries

- 1. Agarwal Bina (1994) A field of one's own: Gender and Land rights in South Asia, Cambridge: Cambridge University Press.
- 2. Menon Nivedita (1999) Gender and Politics in India, New Delhi: Oxford.
- 3. Agarwal, B., 1986. Women, Poverty and Agricultural Growth in India, JPS, New Delhi
- 4. Bhasin, K., Understanding Gender, New Delhi, Kali for Women, 2000
- 5. Patricia Uberoi, 2009. Freedom And Destiny: Gender, Family, and Popular Culture In India, Oxford University Press, New Delhi
- Report on Conditions of Work And Promotion of Livelihoods In The Unorganized Sector by National Commission For Enterprises In The Unorganized Sector, Gol, Academic Foundation, Delhi, 2008.

- 1. To gain critical awareness and reflective ability necessary to identify, articulate and analyse major issues in fisheries development
- 2. To gain knowledge on the different skills applicable in journalism

Theory Unit I

Media industry, concepts and theories in practice of news writing; relating theories of journalism to professional practice; Development journalism – meaning, principles, importance and scope; challenges in development journalism.

Unit II

Basics of news production – gathering, writing and editing news for print media, visual media and online news; photography and art, copyediting and proofreading, word processing, computer layout and design; Script development and Story board preparation; Organization of content - choice of media, categorization of photographs, queuing of audio and video clips, logical sequencing, text entry.

Unit III

Magazine journalism - profile and feature writing; Radio and television journalism - principles and practices of gathering, writing and producing news for radio and television; Photo journalism - visual language, skills and techniques; New media journalism - websites and blogs, writing, editing and site design skills for online journalism; Responsible journalism - fairness and balance, libel, and the commercial nature of the media, constructive criticism; advertisements - principles and practice; careers in journalism.

Practical

Identification, articulation and analysis of major issues related to fisheries development; critical analysis of fisheries related news stories and feature articles from development magazines / newspapers; Gathering and writing news stories, feature articles and editorials; Designing, editing and publishing campus newsletters; interface with editors of journals and magazines; Critical analysis of fisheries related radio news stories; Producing radio news items for broadcast; digital photography and image editing; media organizations and news agencies. Study and practice of various kinds of video editing systems. Practice and use of digital photography. Visits to select printing presses.

- 1. Bond F.F. An Introduction to Journalism, Mac-million, Company, New York.
- 2. Wainwright David Journalism made simple, Rupa&Heinemani, London.
- 3. Kamat M. V. Professional Journalism, Vikas, New Delhi.
- 4. Wolenloy Roland Journalism in Modern India, Asia Publishing, House, London.
- 5. Aggarwal VirBala, Gupta V.S. Handbook of Journalism & Mass Communication, Concept Publishing Company, New Delhi.
- 6. Ray G L (2005) Journalism, Kalyani Publishers.

PLANNING AND MANAGEMENT OF DEVELOPMENT PROGRAMS

Objective:

- 1. To understand different aspects of planning processes
- 2. To acquire competency to plan, implement, monitor and evaluate extension and development programs

Theory Unit I

Planning and socio-economic development; planning experience in India; agriculture and fisheries development over plan-periods; fisheries development vis-à-vis fisheries for development;

Unit II

Unit III

Concept, steps, principles and theories of program planning; Steps in extension program planning, theoretical models of program planning; Felt needs; need -based programs; Program and project; Project Management Techniques - PERT and CPM; Framework Analysis (LFA); Social cost benefit Analysis (CBA); Monitoring & evaluation significance, types, methods & tools; SWOT/TOWS analysis of development programs; Participatory Monitoring and Evaluation (PROME); people's participation in extension programs;

Unit IV

Agriculture, fisheries, tribal and rural development programs in India; Women, children and youth development programs; design, institutional mechanism and performance of NREGS; village and district development plans; developmental strategies such as watershed development programs; coordination and convergence.

Practical

Exercises on PERT, CPM, LFA, SLA; Case studies on performance assessment of fisheries / agricultural development programs; Exercises on developing a fisheries extension project; Exercises on developing village and district fisheries development plans; Case studies on PROME; Study visits to selected extension project areas; international cooperation in agriculture/fisheries

- 1. Dutt, Ruddar and Sundaram, K.P.M., 2009. Indian Economy, S. Chand Publications, New Delhi
- 2. Dreze, Jean and Sen, Amartya (ed.), 2007. Indian Development: Selected Regional Perspectives, Oxpord University Press, New Delhi
- 3. Jhingan, M.L., 2009. Economics of Development and Planning, Vrinda Publications
- 4. Korakandy, Ramakrsihnan, 2008. Fisheries Development In India: The Political Economy Of Unsustainable Development (Volumes I&II), Gyan Publication.
- 5. Planning Commission, 2006, Report of the Working Group on Fisheries for the Eleventh Five Year Plan (2007-2012), GoI. www.planningcommission.gov.in/
- 6. www.nrega.nic.in; www.dahd.nic.in; www.mospi.nic.in

Broad Research Areas

- 1. Comparative study on performance of public, private and market led extension systems
- 2. Performance and Impact of ATMA model of Service Delivery / Knowledge Dissemination
- 3. Communication effectiveness of different media
- 4. Impact of Community radio and ICT led extension systems
- 5. Case studies on Co-management and CBFM experiences in India
- 6. Training need assessment of State Department of Fisheries
- 7. Recruitment policy and career advancement in State Department of Fisheries
- 8. Role and importance of PRIs and NGOs in implementing fisheries development programs
- 9. Critical factors in successful development of community based organizations
- 10. Reach and impact of fisheries innovations
- 11. Stakeholder analysis of fisheries innovations
- 12. Developing effective interactive e-learning and multimedia products
- 13. Reach and impact of fisheries innovations
- 14. Socio-economic impact assessment of development Pragrams
- 15. HRM practices of various State Fisheries Departments, NGOs and private consultancies
- 16. Division of labour and gender equity among fishing communities
- 17. Content analysis of development oriented articles / features in print /electronic media for their reach, readability, and persuasion and conviction
- 18. Political economy of mass media and development journalism
- 19. Case studies on documentation and validation of ITK practices in fisheries sector
- 20. Impact of Tsunami 2005 on fishers livelihoods and fisheries, and rehabilitation efforts
- 21. Pattern of rehabilitation work and its impact
- 22. Returns to investment in fisheries and aquaculture extension
- 23. Evolving participatory result oriented monitoring and evaluation system for fisheries development programs in developing countries.
- 24. Developing appropriate scaling technique for measuring the attitude of fishers towards conservation technologies
- 25. Professionalism in Service Delivery System
- 26. Performance of Public and NGO led extension systems
- 27. Developing and field testing of effective training tools for trainers
- 28. Conflict between small scale fishers and large scale fishers and in(adequacy) of the present resolution mechanism
- 29. Social change, mobility and integration in fishing communities
- 30. Case studies on success stories in use of ICT for fisheries development
- 31. Limiting factors in effective use of ICT for Development
- 32. Comparative study of effectiveness / performance of extension systems in India and Indonesia / Thailand
- 33. Levels of Workload among Fishers and their impact on Health

List of Journals

- 1. Agricultural Economic Research Review
- 2. Agricultural Extension Review
- 3. American Journal of Evaluation
- 4. British Journal of Educational Technology
- 5. Disastermanagement& response
- 6. Disaster prevention and management
- 7. Down To Earth
- 8. Economic and Political Weekly
- 9. Ergonomics
- 10. Evaluation Journal of Australasia
- 11. Extension Review
- 12. Gender & Society
- 13. Gender, Work and Organization
- 14. Honey Bee
- 15. Indian Journal of Agricultural Extension
- 16. Indian Journal of Extension Education
- 17. Indian Journal of Mass Communication
- 18. Indian Journal of Public Administration
- 19. Indian Journal of Social Science Research
- 20. Indian Journal of Social Work
- 21. Indian Journal of Traditional Knowledge
- 22. Indian Research Journal of Extension Education
- 23. International Journal of Agricultural Extension
- 24. International Journal of Education and Development using ICT
- 25. International Journal of Project Management
- 26. International Journal of Social Research Methodology
- 27. International Journal of Training and Development
- 28. Journal of Communication
- 29. Journal of Extension Education
- 30. Journal of Extension Systems
- 31. Journal of Rural Development
- 32. Journal of Social Work
- 33. MANAGE Extension Research Review
- 34. Politics and Gender
- 35. R&D Journal of Information & Communication Technologies
- 36. Rural Sociology
- 37. The Journal of disaster studies, policy and management
- 38. The Journal of Gender Studies
- 39. The Journal of Vocational Education and Training
- 40. The Project Management Journal
- 41. Vikalpa